

CLAIMS

I claim:

- 1 1. An optical mouse integrated circuit comprising:
2 an unitary substrate;
3 an optical sensor generating data;
4 an analog-to-digital converter receiving and processing the data;
5 a microprocessor receiving the processed data; and
6 memory connected to the microprocessor;
7 wherein the optical sensor, analog-to-digital converter, microprocessor, and
8 memory are formed on the unitary substrate.
- 1 2. An optical mouse integrated circuit, as defined in claim 1, further comprising a
2 digital signal processor interposing the analog-to-digital converter and the
3 microprocessor.
- 1 3. An optical mouse integrated circuit, as defined in claim 2, the digital signal
2 processor further including a hardware controller.
- 1 4. An optical mouse integrated circuit, as defined in claim 1, further comprising a
2 hardware controller interposing the analog-to-digital converter and the microprocessor.
- 1 5. An optical mouse integrated circuit, as defined in claim 1, the microprocessor
2 further including an input/output controller.
- 1 6. An optical mouse integrated circuit, as defined in claim 5, further comprising a
2 digital signal processor interposing the analog-to-digital converter and the
3 microprocessor.
- 1 7. An optical mouse integrated circuit, as defined in claim 6, the digital signal
2 processor further including a hardware controller.

- 1 8. An optical mouse integrated circuit, as defined in claim 1, wherein the memory
2 is programmable memory.